

THE TECH

VOL. XXVIII. No. 8

BOSTON, MASS., FRIDAY, OCTOBER 16, 1908

PRICE THREE CENTS

NEW REQUIREMENTS FOR WEARERS OF T

**Insignia to Be Awarded
To Winners in the
Annual Events**

CLASS NUMERALS

**For Successful Members in All
Approved Meetings of the
Underclass Teams**

The names of all substitutes eligible for numerals, must be handed to the chairman of the Advisory Council on the Field at 2.00 P.M.

During the progress of the various events, direct interference by coaches or spectators may render the side assisted liable to disqualification by the Referee, and his judgment shall be final.

Football, whistles, flags for the relay race, and tug-of-war rope will be supplied by the Advisory Council, together with the referees, umpires, timers, and other officials.

On the night after Field Day, Nov. 7th, at 7 P.M., all officials and competitors, including managers of the teams, will dine at the Union. The Field Day Cup will then be passed around, and the members of opposing teams join in singing Tech songs, and giving Tech cheers.

The following new qualifications for the awarding of "T's", correct to Oct. 15, have been issued.

The following are entitled to "T's": Winners of points at the annual meet of the New England Intercollegiate Association. Participants in the semi-finals (either singles or doubles) in the annual tournament of the New England Intercollegiate Lawn Tennis Association. Winners (either singles or members of a team) in the annual tournament of the New England Intercollegiate Golf Association. Winners (either singles or members of a team) in the annual tournament of the Intercollegiate Fencing Association. Members of a winning team, or any man making fifteenth place or better, at the annual run of the Intercollegiate Cross-country Association. Members of a relay team at B. A. A. annual indoor games making better than three minutes, thirteen seconds.

The following are entitled to "ATA": Winners of first place in open class meetings. Winners of points in intercollegiate, dual or triangular meetings. Manager of the track team.

The following are entitled to class numerals: Winners of points in open class meetings. Members of winning

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FRESHMEN RELAY MEN

**Enthusiasm From Larger Turn
Out Enables Squad to do
Better Work**

Considerable enthusiasm was shown by the freshmen yesterday afternoon, sixteen men reporting for track work at the Field. The afternoon was spent in passing the flag and running relays of 220 yards. The squad is getting so now that they can pass the flag smoothly and not lose any time.

Manager Benson of the 1912 team wants more candidates to report, as the trials will not be held for some time yet and there is plenty of chance for new men to make the team. Candidates are particularly wanted who stay out for the team, not those who come out for one day and then for some reason or other stay away.

The following reported to Kanaly to replace gymnasium work by track: E. Mangan, M. A. Cottinger, Taylor, Grant, K. Cartright, Upham, C. L. Tuller, Walker, R. M. Ferry, E. Ferry, Park, Ruby, Herreshoff, Hargraves, Hyde, Murphy. These men will attend regular track practise three times a week in place of the required gymnasium training which the rest of the freshmen will have.

ELECTRICALS PLAN EVENTFUL SEASON

**President and Committees
to Keep Members
Busy**

PAPERS BY SENIORS

**Old Colony and Baltimore Power
Stations—Block Signal
System**

With 92 men present, the Electrical Engineering Society held its first meeting last night and listened to papers read by three members and a statement of the president's plans for the present season.

J. W. Hathaway 1909 spoke first on the Quincy Point power station of the Old Colony Street Railway. This serves all the territory between Boston and Fall River, and contains 5 generators aggregating 10,000 kw. of rated output, with 25 per cent. peak overload. As a general rule only 3 of the machines are operated. In the course of 5 years only 2 breakdowns of over 5 minutes' duration, one due to a short circuit and the other to lightning disturbances.

Kenneth S. May 1909 followed with a talk on the block signal system of the Boston and Worcester Street Railway. This company uses 3 types of signal, but May confined his discussion to the position signal, which is operated by a motor actuated by a track relay. This type was invented by one of the men in the company and has many interesting safety features.

A. R. Knipp 1909 continued the program with a short talk on the Baltimore power system. He worked with the Consolidated Gas, Electric Light and Power Company of that city the past summer and gave a good description of its central station at Westport and city substations, which handle all the city electrical business except that of the street railway. This company raised its tariff at the close of a long rate war, and although Baltimore now has as low rates as any city of similar size, the local feeling is that consumers are being robbed. The company is trying by advertising methods to educate the public to its point of view, but has a difficult task to do so.

After this discussion and some light refreshments a business meeting was held to dispose of certain matters remaining from last year. The office of secretary-treasurer was divided, D. G. Haynes 1909 retaining the secretaryship and R. L. Jones 1909 taking charge of the society funds. President Mills was empowered to appoint certain committees to aid in the maintenance and proper organization of the society. Among them were a program committee, consisting of Osborne 1908, Loud 1909 and C. C. Carter 1909; an entertainment committee, including C. L. Dawes 1909 and G. C. Conner 1909; a social committee, of F. M. Green 1909 and R. H. Hulsizer 1909; a publication committee, of D. G. Haynes 1909 and Grimes 1909, and an attendance committee, headed by R. E. Doane 1908. Juniors are to be added to all these as soon as a fair number

(Continued on page 3.)

SENIORS

As required by the class constitution, all 1909 men in order to vote at the class election, Oct. 22, must have paid their dues (\$1.00) and assessment (fifty cents) for 1907-8. This applies to all seniors whether they were members of the class of 1909 last year or not.

The election committee will accept dues and assessments at any time, giving receipts therefore.

Signed

D. G. Haynes,
Benjamin W. Dow,
L. D. Nisbet,
J. L. Finnie,
Philip H. Young.

NOMINATIONS FOR JUNIOR OFFICERS

**No Names Refused Because
of Institute Committee's
New Rule**

BILLINGS VERSUS WEBB

**Close Contest Expected Between
Candidates for Junior
President**

Nominations for junior class officers have been received as follows: For president, H. D. Billings, C. C. Webb. For vice-president, W. J. O'Hearn, J. H. Ruckmann, P. D. Terry. For secretary, W. H. Duffield, N. S. Seeley. For treasurer, A. A. Gould, L. T. Hemmenway, A. K. Huckins, R. A. D. Preston, J. G. Tripp. For Institute Committee (two to be chosen), A. L. Fabens, J. M. Fitzwater, H. C. Manson, J. S. Sneddon, R. D. Wells. For executive committee (two to be chosen), R. Breyer, R. F. Goodwin, H. G. Reynolds. For athletic association (five to be chosen), J. Avery, Jr., F. F. Bell, G. B. Cummings, P. Hart, F. Hurley, H. Lockett, F. D. Stuart, E. Stuart, D. V. Williamson.

No names were refused on account of the new point system, but the following men declined to run for office: Manson, president, athletic association and Institute Committee; A. A. Gould, vice-president and athletic association; W. H. Duffield, treasurer; C. C. Webb, treasurer, R. A. D. Preston, Institute Committee.

Ballots may be obtained at the cage or from T. W. Saul, H. I. Pearl, or D. Clapp. They must be returned to the Cage before 4.15 P.M. Tuesday, Oct. 20.

Concerning the qualifications of the men running for president, H. D. Billings has played varsity hockey for two years and class baseball and football both seasons, being manager of last year's 1910 baseball team. C. C. Webb has been connected with Tech since for two years, being business manager last year, and he has acted one year as class secretary.

GEOLOGICAL TRIPS

Those taking the trip to Hayward Creek on Saturday afternoon, Oct. 17th, with Professor Shimer, will leave Huntington Avenue Station at 2.06 P.M., train to South Station, 2.27 train to Quincy, trolley to Hayward Creek. Will reach Boston on return trip about 6 P.M. Fare 50 cents.

Object of excursion: To collect fossils from the very old Cambrian rocks, to note how they have been buried and preserved; to classify the different forms found and to compare them with their nearest relatives among living forms; also to collect and classify some typical shells and plants.

A hammer will be found necessary for work among the fossils. All interested are cordially invited.

BOOKS FOR TECH SHOW

The books submitted to the stage manager are accepted under the following conditions only: The author relinquishes all claim to his book when it is accepted. The manager reserves the right to make such changes in the title, incidental episodes, and the arrangement as the professional coach may recommend. Lyrics are not necessarily accepted with the book. The stage manager, however, may use such ones as he requires. The number of complementary seats given the author will not exceed six for the book, and for book and lyrics will not exceed ten. It is assumed that all books received are submitted under these conditions. If not, book will be returned by Goodwin on the written request of the author. All books are due November 1. Address: Richard F. Goodwin, Jr., Stage Manager.

TECH AND HARVARD RUN OVER COURSE

**Both Cross Country Teams
Working Hard for
Field Day**

HARE AND HOUNDS RUN

**To Take Special Car for
Wellesley on
Saturday**

Twenty-four men on the cross-country squad went over the course from West Roxbury to Tech Field with Coach Kanaly, Wednesday. The first five to finish were as follows: L. O. Mills 1910, H. H. Howland 1908, J. N. Stephenson 1909, W. T. McCreadie 1911, and J. F. McCarthy 1909. The time of the run was not given out but it is believed to have been fairly good.

Coach Kanaly is a little disappointed in the fellows in that with a few exceptions, they do not train regularly or faithfully. Attendance at the Field is irregular and some of the men have been seen smoking. He says that "Technology is to win the series from Harvard, the men will have to take a big brace and show some more interest in training."

The Harvard squad went over the course just preceding Technology, and the men arrived in fine condition. Their time is unknown. The fact that Harvard and Technology both ran yesterday is a reminder that Field Day is only three weeks away. Little is known about the Harvard team except that Shrubbs, the world's champion long-distance runner is running regularly with the team. Shrubbs is making his debut as trainer and is therefore putting every effort to turn out a good team. It is too early to make any prediction as to Tech's chances either against Harvard or in the Intercollegiate on Nov. 21.

From all accounts all the colleges are displaying unusual interest in cross-country work. The union of the Intercollegiate Cross-Country Association and the I. C. A. A. A. is largely responsible for this change. Cornell, with probably 150 to 200 men out, is calling out for more candidates. The success of Cornell seems to make Moakley more active and energetic than ever.

U. of P. is adopting a more thorough scheme of training. Instead of Mike Murphy giving the men his divided attention, Orton, Pennsy's champion distance runner and former captain S. P. Jones are running with the team and coaching them thoroughly.

Columbia, though never a cross-country college, is doing well this year, having 75 men out on the first run.

The make-up of the Tech team is a

(Continued on page 2.)

1911 PLAYS WALTHAM

**Sophomore Football Team Has
Hard Game Tomorrow**

Tomorrow afternoon the sophomore football team will meet their first opponents of the season at Waltham. The latter have one of the best preparatory school teams around Boston, having scored 217 points to their opponents 4 in six games. The game will therefore afford a good insight into the quality of the sophomore team. Manager H. H. Williams hopes that a considerable number of the class be out to Waltham to support the team and see what sort of men represent them on Field Day. The members will take the 1.13 P.M. train from the North Station.

The line-up will be as follows: O'Neil, fullback; Metcalf, right half back; Morey and Odell, left half backs; Schatz and Drake, quarter backs; Hall, center; Blakewell, right guard; Hutchins, and Kimball, left guards; Van Tassel, right tackle; Adams, left tackle; Williams and Smith, right ends; Evans and Merrill, left ends.

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Editorial Staff.

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H. I. PEARL 1910
D. CLAPP 1910

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W. D. GREEN 1909 D. R. STEVENS 1911
J. N. STEPHENSON 1909 R. H. RANGER 1911
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Friday, October 16, 1908.

Only sixty-one men in the class of 1909 paid their class dues last year. This rather cripples the nomination list for the coming elections since a man can neither vote nor hold office unless he is square with the class treasurer. The present senior class would seem to be either extremely economical or else lacking in class spirit.

The following letter explains itself.

October 13, 1908.

Editor of the Tech,
M. I. T.

Dear Sir: In order that students may take seriously the request which is about to be made for information to be given to the Federal Immigration Commission of Washington, I should be pleased to have you print in your columns a statement to the effect that this Bureau desires statistics of students studying at the Institute. The Bureau corresponded with the President during the summer in regard to the possibility of receiving such information, and he assured them that students would be glad to assist them, and has caused the Registrar to collect statistics.

Shortly, cards, printed by this Board, will be sent to all students, with a request that they fill them out and return them promptly. They should be filled out in good faith, as it is needless to request Institute students to do.

Very truly yours,
Walter Humphreys,
Registrar.

COLLOQUIUM STARTS

Dr. W. R. Lewis will open the series of Physico-Chemical Colloquium meetings Monday evening, Oct. 19, 7.30 P.M. at the Union. The Colloquium will be held every other Monday throughout the winter and is intended to benefit advanced students and instructors in Physics and Chemistry. At every meeting opportunities will be given those present to question and discuss the lecture of the evening. The colloquium does not count on the tabular view but it has been given in past years and much interest taken in it.

The entire series of talks has not yet been arranged but the first six subjects and speakers are as follows:

October 19th. The Abnormal Vapor Pressure of Ammonium Chloride. Dr. W. R. Lewis.

November 2nd. Recent Investigations in Photo-Chemistry, I. Dr. H. T. Kal-mus.

November 16th. Recent Investigations in Photo-Chemistry, II. Dr. W. C. Bray.

November 30th. Is the Valence Theory Adequate? Prof. F. J. Moore.

December 14th. Recent Developments in Radio-Activity. Dr. C. A. Kraus.

December 28th(?) Absorption. Prof. K. L. Mark.

TECH AND HARVARD

(Continued from page 1.)

matter for fruitful speculation. Five of last year's team are back and running, while there is a bunch of sophomores and freshmen working hard for the team. Mills 1910, Jacobs 1910, and Huber 1910 should show up well in the trials, but 1911 has the strongest delegation in McCreadie, White, Eldred, Mackenzie. Campbell 1909 has been doing some remarkably good work in view of the short time he has been working. H. S. Benson, Tuller, Ferry and Ballard are the most promising freshmen.

Hare and Hounds

The hare and hounds squad will have a special car which will be attached to the 2.04 P.M. train from Trinity Place station to Wellesley tomorrow. This is in anticipation of a large crowd. Another new scheme will be tried. Instead of only two hares, as has been customary, there will be three hares tomorrow. This will make it possible to lay a much better trail than usual. The hares will be given at least ten minutes' start and the fast bunch will be made up of candidates for the cross-country team and will set a fairly good pace. Any man who finds this pace too fast can drop back for the slow bunch who will take things easy. Round trip fare 30 cents, one way 15 cents.

TO MEET HARVARD

At the Chess Club meeting yesterday S. M. Schmidt 1911 was elected president. C. Freed 1909, vice-president, H. G. Jenks 1911, secretary-treasurer and A. H. E. Kaufman 1911, C. P. Perry 1911, and A. B. Morrill 1909, executive committee. Plans for a local tournament in preparation for a tournament with Harvard were discussed.

It is planned to hold the tournament as soon as possible to choose representatives to play with representatives from Harvard some time this fall. The club plans to put some chess men and boards in the Union to develop as much interest in the club as possible. Everyone having any knowledge at all of the game is urged to see some one of the officers and come out at the next meeting of the club.

MINES DISCUSSED

"How the Butte district grew to be the center of the copper production of the United States", will be the subject of a talk by Mr. Goodell 1875, at the business meeting of the Mining Engineering Society tonight at 7.45 in 11 Pierce Building.

Mr. Goodell's talk will be mainly on the history and discovery of the Butte district and how it grew from a small silver mining camp to the position it now holds among the copper markets of the world. The talk should prove interesting as Mr. Goodell is manager of the Butte and Montana Mining Co., and can give much valuable information. Light refreshments will be served.

Yesterday Technology was visited by a distinguished Chinaman, Mr. Li Sum Ling, Editor-in-chief of the Chinese Mail of Hongkong. Mr. Ling is making a tour of the world and has paid especial attention to educational institutions. He was conducted through the Institute buildings and seemed much interested in Technology.

CALENDAR

Friday, Oct. 16, 1908

4.00 P.M. Cross-country men walk from Rogers' steps.
4.00 P.M. Mandolin Club Rehearsal at the Union.
5.00 P.M. Cross-country men walk from Rogers' steps.
4.00 P.M. 1911 and 1912 teams practice.

Saturday, Oct. 17

2.00 P.M. 1911 and 1912 teams practice.
2.04 P.M. Hare and hounds men leave Trinity Place for Wellesley.

Sunday, Oct. 18

6.45 P.M. Y. M. C. A. meeting at the Union.

Monday, Oct. 19

4.00 P.M. 1911 and 1912 teams practice.
4.15 P.M. Glee Club rehearsal at the Union.
8.00 P.M. Chemical Society meeting at the Union.

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NEW REQUIREMENTS

(Continued from page 1.)

baseball team and manager, in the spring series. Participants on Technology Field Day as follows: first, to members of both football teams including managers. Second, to members of the winning team in the relay race including manager. Third, to members of the winning tug-of-war team including manager. The first six to finish of the winning class in the freshman-sophomore cross-country run.

The following are entitled to "CTC": The four men making the fastest time in the annual open cross-country race. Any man who makes thirtieth place or better at the annual race of the I. C. A. A. A. Any man who makes tenth place or better in a dual or triangular cross-country race.

The Advisory Council may award "T's" in meetings or matches previously approved and designated by them. To the manager of the track team. To the first man in a dual or first or second in a triangular intercollegiate meeting. To winners of an intercollegiate relay race. To any man who makes fifth place or better in a dual intercollegiate cross-country race.

The Advisory Council may award other designations as follows: "LTL" to the manager of the lawn tennis team. "GTT" to the manager of the golf team. "FTT" to the manager of the fencing team. "HTT" to members of a hockey team who participate in two-thirds or more of the games played in one season, and to the manager. "BTB" to the members of a basket ball team who participate in two-thirds or more of the games played in one season, and to the manager.

The Advisory Council may allow insignia to be worn in games or races only, for uniformity of costume, as follows: basket ball, "BTB"; hockey, "HTT." In intercollegiate championships: fencing, "FTT"; golf, "GTT"; lawn tennis, "LTT"; relay or cross-country, respectively "ATA" or "CTC", to those not having either of such insignia or class numerals.

No combination or addition of points to aggregate the equivalent of a higher class will be counted.

CIVILS DINE WEDNESDAY

Next Wednesday the Civil Engineering Society will hold their first dinner of the year at the Union. At the dinner will be presented the names of those men from the classes of 1910 and 1911 who wish to become members, so that those who want to join should come. All men of Courses I and XI are eligible and should make a special effort to be at the dinner. The names will be presented to the society and the applicants will be notified before the next meeting whether they have been voted in or not. Several members of the faculty will be present and will outline the purpose of the organization and its benefits to those in the two courses mentioned.

It is expected that the following will speak: Prof. G. F. Swain, Prof. Dwight Porter, Prof. C. F. Allen, and possibly Dean Alfred E. Burton.

ELECTRICALS PLAN

(Continued from page 1.)

ber of 1910 men have joined the society, after the next meeting.

President Mills plans a lively season and has taken matters largely into his own hands, with the approval of the members. The membership and social committees will keep members posted as to the course of events and provide light entertainment to make the meetings attractive as well as instructive. The program committee will look after the main events of each gathering, secure the speakers and attend to such preliminaries as may be necessary. The publication committee will advertise the society and course VI as widely as possible in all the Institute publications and by bulletins and will be responsible for all notices and reports of meetings.

Biweekly excursions, provided for in the constitution, are to be resumed. These have never been made much of in the past, but seem to offer good opportunities to the men, both educationally and socially. Nearby plants of interest will be visited, and informal discussion of the trips will be held at following meetings.

It is hoped that president Ferguson of the A. I. E. E. will be induced to speak to the society some time in December. The standard programs, however, will include chiefly members and recent graduates as the speakers. So far as possible, every member is to have a chance to address his fellows.

After votes of thanks to the speakers and Prof. Jackson for their work, the meeting adjourned.

TORCHLIGHT PARADE

Plans are gradually materializing for a monster intercollegiate torchlight parade, October 30. The parade will start from the Back Bay section of Boston and will consist of members of the Republican clubs of the majority of the New England colleges. As far as can be learned now there will be over 3,000 students in the parade. Harvard expects to send 1,500 men, Dartmouth 200, Boston University 150, Tufts 300, Amherst 300, and Brown 400. So far Tech men have not shown much enthusiasm over the parade and it seems very doubtful if they will make as good a showing as some of the smaller colleges.

At the beginning of next week tickets for uniforms and torches will be put on sale. These will only be on sale three days since the torches must be ordered some time in advance and only as many will be ordered as tickets are sold. It will be difficult for men to get uniforms and torches at reduced rates after the first of next week.

In order that the Technology delegation may have plenty of band music and red fire an assessment may have to be taken up from the students. This may not be necessary, however, if enough memberships to the Technology Republican Club can be secured. A decent band costs about one hundred dollars or about four hundred membership fees. So far the club numbers about 150. An effort will be made by the executive committee of the club to arrange for speakers on politics and civic responsibility.

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NOTICES

BASEBALL, 1910—Picture at Notman's at 1 o'clock Thursday.

FIRST YEAR—Section 2 in Military Science is transferred from Thursday to Wednesday at 10 o'clock.

CHEMICAL SOCIETY—Meeting Monday, Oct. 19, at 8 P.M. in the Tech Union.

CIVIL ENGINEERS—Society dinner at the Union Wednesday evening.

THE TECH—There will be a meeting of the Board of Editors of The Tech, Monday, at 1 P.M. at the Union.

MANDOLIN CLUB—A pianist is wanted for the mandolin club. Candidates come to the Friday or Tuesday rehearsal at the Union, 4 P.M.

ELECTRICAL ENGINEERS—Monthly meeting of the American Institute will be held Wed., Oct. 21, 8 P.M., at 39 Boylston St. Speaker, Charles M. Allen.

TENNIS—All men entered in the tournament who have not yet paid their entry fee of 75c. in either singles or doubles, please leave same at the Cage for J. Scheuer. They will find receipt at the Cage on the following day.

APPLICATIONS for rooms for club meetings, dinners, etc. to be held in the Union should be made at the Bursar's office. Applications for permanent rooms for Institute activities should be presented to the Institute Committee.

FRESHMEN—The last opportunity to substitute track athletics for gymnastics is tomorrow. Men who wish to substitute must report at the Field today or tomorrow or go on the hare and hounds run tomorrow at Wellesley.

TECHNOLOGY CLUB—The first Smoke Talk of the season will be given by Mr. Seth K. Humphrey on Tues., Oct. 20, at 8 o'clock. His subject is "A Recent Trip to the Palestine" and will be illustrated by lantern slides. Members may invite guests.
 Robt. S. Williams, Sec.

1910 ELECTIONS—Polls are now open. Election will close at 4.15 P.M. Tuesday, Oct. 20, 1908.

Ballots must be left at the Cage before that time. Ballots may be obtained now at the Cage or from the Committee.
 T. W. Saul,
 H. I. Pearl,
 Dudley Clapp.

EPISCOPALIANS—The first regular monthly corporate communion will be held Sunday, Oct. 18, at 9 o'clock in Trinity Church. The Local Assembly of the Brotherhood will be held Saturday night, Oct. 17, at 8 o'clock in the Church of the Messiah on St. Stephen St., corner of Gainsborough.

TIME AND POINTS

For the Field Day Events Now Given Out by the Advisory Council

Regulations on the counting of points, the time of events, and the latest qualifications for "Ts" and numerals were given out by the Advisory Council on Athletics yesterday.

The points will be counted as follows: football game, four (4) points; relay race, three (3) points; tug-of-war, two (2) points.

The different events will be called at the following specified times: tug-of-war, (first trial) 2.15 P.M.; football (first half), 2.25 P.M.; relay race, 3.00 P.M.; tug-of-war (second trial), 3.10 P.M.; football (second half), 3.15 P.M.; tug-of-war (third trial, if necessary), 4.00 P.M. The members of all the teams must be on the Field at the time designated.

SUNDAY TALK

Rev. Albert Parker Fitch of Mt. Vernon Church will give one of his bright, sound talks at the Union, Sunday at 6.45 P.M. The popularity of these gatherings was assured by the crowd last week, when more than 100 men heard T. A. D. Jones of Yale.

CLASSIFIED ADS

Advertisements under this head are inserted at the rate of five cents a line of six words, payable in advance, and copy should be handed to the business manager the morning before publication day.

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